## **Amendments to the Claims:**

Please amend Claims 1, 3 and 10 and cancel Claims 12, 16 and 75. This listing of claims will replace all prior versions, and listings of claims in the application:

## **Listing of Claims:**

1	1 (currently amended): An isolated nucleic acid encoding an Sitosterolemia
2	Susceptibility Gene (SSG) polypeptide, said polypeptide comprising an amino acid sequence that
3	is at least about 70% 75% identical to the full-length of an amino acid sequence as set forth in
4	SEQ ID NO:3, wherein said amino acid sequence comprises a sequence selected from the group
5	consisting of SEQ ID NO:5 and SEQ ID NO:6 an ATP-binding cassette (ABC) family sterol
6	transporter.
1	2 (previously presented): The nucleic acid of claim 1, wherein said polypeptide
2	specifically binds to polyclonal antibodies generated against a polypeptide that comprises an
3	amino acid sequence selected from the group consisting of SEQ ID NO:3, SEQ ID NO:5 and
4	SEQ ID NO:6.
1	3 (currently amended): The nucleic acid of claim 1, wherein said polypeptide
2	comprises an amino acid sequence selected from the group consisting of as set forth in SEQ ID
3	NO:3 <del>, SEQ ID NO:5 and SEQ ID NO:6</del> .
1	4 (original): The nucleic acid of claim 1, wherein said polypeptide forms a dimer
2	with a second ABC polypeptide, and wherein said dimer exhibits sterol transport activity.
1	5 (original): The nucleic acid of claim 4, wherein said dimer is a heterodimer.
1	6 (original): The nucleic acid of claim 4, wherein said sterol is cholesterol.

1	7 (previously presented): The nucleic acid of claim 5, wherein said second ABC
2	polypeptide is ATP-Binding Cassette 8 (ABC8).
1	8 (previously presented): The nucleic acid of claim 1, wherein said nucleic acid
2	hybridizes under moderately stringent hybridization conditions comprising 40% formamide, 1M
3	NaCl, 1% SDS at 37°C and wash conditions of 1x SSC at 45°C to a nucleic acid comprising a
4	nucleotide sequence as set forth in SEQ ID NO:4.
1	9 (previously presented): The nucleic acid of claim 8, wherein said nucleic acid
2	hybridizes under stringent hybridization conditions comprising 50% formamide, 5x SSC, 1%
3	SDS at 65°C and wash conditions of 0.2x SSC, 0.1% SDS at 65°C to a nucleic acid comprising a
4	nucleotide sequence as set forth in SEQ ID NO:4.
1	10 (currently amended): The nucleic acid of claim 1, wherein said nucleic acid
2 .	comprises a nucleotide sequence at least about 70% 80% identical to the full-length of a
3	sequence as set forth in SEQ ID NO:4.
1	11 (previously presented): The nucleic acid of claim 1, wherein said nucleic acid
2	comprises a nucleotide sequence as set forth in SEQ ID NO:4.
	12 (canceled)
l	13 (original): The nucleic acid of claim 1, wherein said nucleic acid is from a
2	mouse or a human.
1	14 (original): The nucleic acid of claim 1, wherein said nucleic acid is expressed
2	in the intestine or in the liver in the presence of an LXR agonist.
1	15 (original): The nucleic acid of claim 1, wherein said nucleic acid is expressed
2	in a tissue selected from the group consisting of liver, jejunum, ileum, and duodenum.

## 16 (canceled)

1 17 (original): An expression cassette comprising the nucleic acid of claim 1 2 operably linked to a promoter. 1 18 (original): An isolated cell comprising the expression cassette of claim 17. 19 (withdrawn): An isolated SSG polypeptide, said polypeptide comprising an 1 2 amino acid sequence that is at least about 70% identical to an amino acid sequence as set forth in 3 SEQ ID NO:1 or 3. 1 20 (withdrawn): The isolated polypeptide of claim 19, wherein said polypeptide 2 selectively binds to polyclonal antibodies generated against a polypeptide comprising an amino 3 acid sequence as set forth in SEQ ID NO:1 or 3. 1 21 (withdrawn): The isolated polypeptide of claim 19, wherein said polypeptide 2 comprises an amino acid sequence as set forth in SEQ ID NO:1 or 3. 1 22 (withdrawn): The isolated polypeptide of claim 19, wherein said polypeptide 2 forms a dimer with a second ABC polypeptide, and wherein said dimer exhibits sterol transport 3 activity. 1 23 (withdrawn): The isolated polypeptide of claim 22, wherein said dimer is a 2 heterodimer. 1 24 (withdrawn): The isolated polypeptide of claim 23, wherein said second ABC 2 polypeptide is ABC8. 1 25 (withdrawn): The isolated polypeptide of claim 22, wherein said sterol is 2 cholesterol.

I	26 (withdrawn): The isolated polypeptide of claim 19, wherein said polypeptide
2	is expressed in the intestine or in the liver in the presence of an LXR agonist.
1	27 (withdrawn): The isolated polypeptide of claim 19, wherein said polypeptide
2	is expressed in a tissue selected from the group consisting of the liver, jejunum, ileum, and
3	duodenum.
1	28 (withdrawn): The isolated polypeptide of claim 29, wherein said polypeptide
2	is from a mouse or a human.
1	29 (withdrawn): An antibody generated against the isolated polypeptide of
2	claim 19.
1	30 (withdrawn): An isolated SSG polypeptide, said polypeptide comprising an
2	amino acid sequence selected from the group consisting of SEQ ID NO:5 and SEQ ID NO:6.
1	31. (original) A method of making an SSG polypeptide, the method comprising
2	(i) introducing a nucleic acid of claim 1 into a host cell or cellular extract; and
3	(ii) incubating said host cell or cellular extract under conditions such that said
4	SSG polypeptide is expressed in the host cell or cellular extract.
1	32. (original) The method of claim 31, further comprising recovering the SSG
2	polypeptide from the host cell or cellular extract.
1	33 (withdrawn): A method of identifying a compound useful in the treatment or
2	prevention of a sterol-related disorder, said method comprising contacting an SSG polypeptide
3	with a test agent, and determining the functional effect of said test agent upon said polypeptide,
4	wherein a functional effect exerted on said polypeptide by said test agent indicates that said test
5	agent is a compound useful in the treatment or prevention of said sterol-related disorder.
1	34 (withdrawn): The method of claim 33 wherein said sterol is cholesterol

1	35 (withdrawn): The method of claim 33, wherein said polypeptide comprises an
2	amino acid sequence that is at least about 70% identical to an amino acid sequence as set forth in
3	SEQ ID NO:1 or 3.
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1 .	36 (withdrawn): The method of claim 33, wherein said polypeptide is present in
2.	a cell or cell membrane.
1	37 (withdrawn): The method of claim 33, wherein said polypeptide is bound to a
2	heterologous ABC polypeptide, forming a heterodimer.
1	38 (withdrawn): The method of claim 33, wherein said functional effect
2 .	comprises an increase in the sterol transport activity of said polypeptide.
1	39 (withdrawn): The method of claim 33, wherein said functional effect
2	comprises a physical interaction between said test agent and said polypeptide.
1	40 (withdrawn): The method of claim 39, wherein said physical interaction is
2	detected using a direct binding assay.
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1	41 (withdrawn): The method of claim 33, wherein said sterol-related disorder is
2	sitosterolemia.
1	42 (withdrawn): The method of claim 33, wherein said sterol-related disorder is
2	selected from the group consisting of hypercholesterolemia, hyperlipidemia, gall stones, HDL
2	deficiency, atherosclerosis, and nutritional deficiencies.
3	deficiency, ameroscierosis, and nutritional deficiencies.
1	43 (withdrawn): A method of identifying a compound useful in the treatment or
2	prevention of a sterol-related disorder, said method comprising contacting with a test agent a cell
3	that expresses or is capable of expressing an SSG polypeptide, and determining the functional
4	effect of said test agent upon said cell;

5	wherein a functional effect exerted on said cell by said test agent indicates that
5	said test agent is a compound useful in the treatment or prevention of said sterol-related disorder.
l	44 (withdrawn): The method of claim 43, wherein said sterol is cholesterol.
1	45 (withdrawn): The method of claim 43, wherein said SSG polypeptide
2	comprises an amino acid sequence that is at least about 70% identical to an amino acid sequence
3	as set forth in SEQ ID NO:1 or 3.
1	46 (withdrawn): The method of claim 43, wherein said compound produces an
2	increase in the expression of an SSG gene that encodes said SSG polypeptide.
l	47 (withdrawn): The method of claim 46, wherein said increase in the expression
2	of said SSG gene is detected by detecting the level of SSG mRNA in said cell.
l	48 (withdrawn): The method of claim 46, wherein said increase in the expression
2	of said SSG gene is detected by detecting the level of SSG polypeptide in said cell.
l	49. (withdrawn): The method of claim 46, wherein said increase in the
2	expression of said SSG gene is detected by detecting the level of SSG protein activity in said
3	cell.
l	50 (withdrawn): The method of claim 43, wherein said compound modulates the
2	level of sterol transport activity in said cell.
l	51 (withdrawn): The method of claim 50, wherein said sterol transport activity in
2	said cell is detected by detecting the rate of sterol efflux in said cell.
l	52 (withdrawn): The method of claim 51, wherein said sterol is cholesterol.
l	53 (withdrawn): The method of claim 46, wherein said increase in the expression
2	of said SSG gene is mediated by LXR or RXR.

l	54 (withdrawn): The method of claim 43, wherein said sterol-related disorder is
2	sitosterolemia.
1	55 (withdrawn): The method of claim 43, wherein said sterol-related disorder is
2	selected from the group consisting of hypercholesterolemia, hyperlipidemia, gall stones, HDL
3	deficiency, atherosclerosis, and nutritional deficiencies.
1	56 (withdrawn): A method of treating or preventing a sterol-related disorder in a
2	mammal, said method comprising administering to said mammal a compound that increases the
3	level of expression or activity of an SSG polypeptide in a plurality of cells of said mammal.
1	57 (withdrawn): The method of claim 56, wherein said sterol is cholesterol.
1	58 (withdrawn): The method of claim 56, wherein said sterol-related disorder is
2	sitosterolemia.
1	59 (withdrawn): The method of claim 56, wherein said sterol-related disorder is
2	selected from the group consisting of hypercholesterolemia, hyperlipidemia, gall stones, HDL
3	deficiency, atherosclerosis, and nutritional deficiencies.
1	60 (withdrawn): The method of claim 56, wherein said compound produces a
2	decrease in the amount of dietary sterol that is absorbed in said mammal.
1	61 (withdrawn): The method of claim 56, wherein said compound produces a
2	decrease in the amount of sterol that is retained in the liver of said mammal.
1	62 (withdrawn): The method of claim 56, wherein said compound is identified
2	using the method of claim 33 or 43.
1	63 (withdrawn): The method of claim 56, wherein said compound causes an
2	increase in LXR or RXR activity within cells of said mammal.

1	64 (withdrawn): A method of prescreening to identify a candidate therapeutic
2	agent that modulates SSG activity in a mammal, the method comprising:
3	providing a cell which comprises an SSG polypeptide; and
4	a test compound; and
5	determining whether the amount of sterol transport activity in said cell is
6	increased or decreased in the presence of the test compound relative to the activity in the absence
7	of the test compound;
8	wherein a test compound that causes an increase or decrease in the amount of
9	sterol transport activity is a candidate therapeutic agent for modulation of SSG activity in a
10	mammal.
1	65 (withdrawn): The method of claim 64, further comprising a secondary step,
2	wherein said test compound is administered to a mammal, and the absorption of dietary sterol in
3	said mammal is detected.
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1	66 (withdrawn): A method of inducing the expression of an ABC gene in a
2	mammalian cell, said method comprising increasing the level of LXR or RXR activity in said
3	cell.
1	67 (withdrawn): The method of claim 66, wherein said ABC gene encodes a
2	protein that is involved in the transport of a sterol.
2	protein that is involved in the transport of a steroi.
1	68 (withdrawn): The method of claim 67, wherein said ABC gene is selected
2	from the group consisting of SSG, ABC1 and ABC8.
. 1	60 (with drawn). The mothed of aloins 67 with anning and atomal is abeleatonal
1	69 (withdrawn): The method of claim 67, wherein said sterol is cholesterol.
1	70 (withdrawn): The method of claim 66, wherein said LXR or RXR activity is
2	increased by administering an LXR or RXR agonist to said cell.

1	71 (withdrawn): The method of claim 66, wherein said cell is present in a
2	mammal.
1	72 (withdrawn): The method of claim 66, wherein said cell is a liver, intestinal,
2	or kidney cell.
1	73 (withdrawn): An isolated nucleic acid comprising at least one nucleotide
2	sequence selected from the group consisting of exon 1 (SEQ ID NO:7), exon 2 (SEQ ID NO:8),
3	exon 3 (SEQ ID NO:9), exon 4 (SEQ ID NO:10), exon 5 (SEQ ID NO:11), exon 6 (SEQ ID
4	NO:12), exon 7 (SEQ ID NO:13), exon 8 (SEQ ID NO:14), exon 9 (SEQ ID NO:15), exon 10
5	(SEQ ID NO:16), exon 11 (SEQ ID NO:17), exon 12 (SEQ ID NO:18) and exon 13 (SEQ ID
6	NO:19).
1	74 (withdrawn): The isolated nucleic acid sequence of claim 73, further
2	comprising at least one intron.
	75 (canceled)
1	76 (previously presented): The nucleic acid of claim 1, wherein said amino acid
2	sequence is at least about 90% identical to said amino acid sequence set forth in SEQ ID NO:3.
1	77 (previously presented): The nucleic acid of claim 1, wherein said amino acid
2	sequence is at least about 95% identical to said amino acid sequence set forth in SEQ ID NO:3.